

Recovery Plan Action Status

Plan Name: Wright Fishhook Cactus

Plan Status: Final

Plan Date: 24-Dec-85

Lead Agency: USFWS

Lead Office: Utah Ecological Services Field Office

(501)

975-3330)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Wright fishhook cactus (Sclerocactus wrightiae)	2	1.1	Survey for population in Wayne & Emory Co's	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management, National Park Service, USFWS Region 6, Endangered Species Division	Management: General, Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Population Monitoring, Other: Regulations, Research: Demographic Studies, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques, Research: Population Assessment, Research: Population Surveys, Research: Predation	Contract, Internal Field Assistance, Internal Technical Assistance, Species Expert	Tracks of land have been surveyed in past 20+ years. Repeat inventory surveys were initiated in 2011 with the purpose of finding monitoring sites containing enough cacti to monitor the species for impacts related to grazing and other human caused impacts.
Wright fishhook cactus (Sclerocactus wrightiae)	2	1.2	Delineate at least two widespread areas supporting the largest population as essential habitat	Ongoing Current	Prior to FY 1995		State of Utah, U.S. Bureau of Land Management, National Park Service, USFWS Region 6, Endangered Species Division	Acquisition: General	Internal Administrative	Cost apportioned between agencies
Wright fishhook cactus (Sclerocactus wrightiae)	2	1.3	Revise essential habitat determinations as additional population, biological and habitat data becomes available	Not Started			U.S. Bureau of Land Management, USFWS Region 6, Endangered Species Division	Work type not yet selected	Labor type not yet selected	Cost is 500/year apiece for R6SE & BLM; reviewed at least biennially

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Wright fishhook cactus (Sclerocactus wrightiae)	2	2.11	Analyze soil requirements	Not Started			U.S. Bureau of Land Management, National Park Service, USFWS Region 6, Endangered Species Division	Work type not yet selected	Labor type not yet selected	Cost is 2,000 for R6SE, 1,000 for BLM, and 1,000 for NPS; duration & cost per inventory (to be conducted as needed)
Wright fishhook cactus (Sclerocactus wrightiae)	2	2.12	Analyze effects of disturbance of cryptogamic crust	Not Started			State of Utah, U.S. Bureau of Land Management, National Park Service, USFWS Region 6, Endangered Species Division	Work type not yet selected	Labor type not yet selected	Cost is 500/yr for R6SE, 2,000/yr for BLM, 500/yr for NPS, and 500/yr for UT
Wright fishhook cactus (Sclerocactus wrightiae)	3	2.2	Determine pollination mechanism	Not Started			U.S. Bureau of Land Management, USFWS Region 6, Endangered Species Division	Work type not yet selected	Labor type not yet selected	Cost is 2,000/yr for R6SE and 3,000/yr for BLM
Wright fishhook cactus (Sclerocactus wrightiae)	3	2.3	Determine seedling and germination requirements	Not Started	Prior to FY 1995		State of Utah, U.S. Bureau of Land Management, National Park Service, USFWS Region 6, Endangered Species Division	Research: Population Surveys	Contract	Cost in FY01 - 1,000 for R6SE, 1,000 for BLM, 500 for NPS, and 500 for UT; FY02-1,000 for R6SE, 1,000 for BLM, 1,000 for NPS, and 1,000 for UT; FY03 - 1,000 for R6SE.
Wright fishhook cactus (Sclerocactus wrightiae)	2	2.4	Investigate effects of larval predators	Not Started	Prior to FY 1995		USFWS Region 6, Endangered Species Division	Research: Population Surveys, Research: Predation	Contract, Graduate Student, Internal Field Assistance, Species Expert	Some information gathered in population surveys. No direct research on topic known (2006).
Wright fishhook cactus (Sclerocactus wrightiae)	1	3.1	Inform agencies (Federal & State) of plant locations on their lands	Ongoing Current	Prior to FY 1995		USFWS Region 6, Endangered Species Division	Management: Planning	Internal Field Assistance	Currently federal agencies inform FWS and state to locations of plant species
Wright fishhook cactus (Sclerocactus wrightiae)	2	3.2	Review agency activities in essential habitat	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management, National Park Service, Others, USFWS Region 6, Endangered Species Division	Management: Habitat Maintenance and Manipulation	Internal Field Assistance	SE costs will be covered by salaries of Section 7 personnel; Cost is 1,000/yr for BLM, 250/yr for NPS, and 250/yr for others
Wright fishhook cactus (Sclerocactus wrightiae)	1	3.3	Enforcement of existing regulations	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management, National Park Service, USFWS Region 6, Endangered Species Division	Other: Law Enforcement	Internal Administrative	Cost is 1,000/yr for R6SE, 1,500/yr for BLM, and 500/yr for NPS

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Wright fishhook cactus (Sclerocactus wrightiae)	2	3.4	Develop law enforcement strategy	Discontinued	Prior to FY 1995		USFWS Region 6, Law Enforcement Division, USFWS Region 6, Endangered Species Division	Other: Law Enforcement	Internal Administrative	
Wright fishhook cactus (Sclerocactus wrightiae)	3	3.5	Conduct public information	Ongoing Not Current	Prior to FY 1995		U.S. Bureau of Land Management, USFWS Region 6, Law Enforcement Division, USFWS Region 6, Public Affairs Division	Other: Information and Education	Internal Technical Assistance	Cost is 500/yr for R6SE/PAO and 500/yr for BLM
Wright fishhook cactus (Sclerocactus wrightiae)	1	3.6	Restrict land use to protect populations	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management, USFWS Region 6, Endangered Species Division	Management: Planning	Contract	Cost are for R6SE; Costs should decrease once land restrictions are identified & put into practice
Wright fishhook cactus (Sclerocactus wrightiae)	3	3.7	Develop a management plan	Discontinued	Prior to FY 1995		State of Utah, U.S. Bureau of Land Management, National Park Service, USFWS Region 6, Endangered Species Division	Management: Habitat Maintenance and Manipulation, Management: Planning	Internal Administrative, Internal Technical Assistance, Species Expert	No management plan has been initiated
Wright fishhook cactus (Sclerocactus wrightiae)	3	4	Monitor populations & pursue downlisting, delisting, or revise recovery goals as needed	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management, National Park Service, USFWS Region 6, Endangered Species Division	Management: Habitat Maintenance and Manipulation, Management: Planning, Management: Population Monitoring, Research: Demographic Studies, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques, Research: Population Assessment, Research: Population Surveys, Research: Predation	Contract, Internal Field Assistance, Internal Technical Assistance, Species Expert	Currently annual monitoring exists in the Factory Butte area only. Additional monitoring is planned to start rangewide in 2013 in response to a grazing permit renewal BO requirements. A revision of the recovery plan, including recovery goals, is in draft (2011).

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Wright fishhook cactus (Sclerocactus wrightiae)	2	5	Develop techniques to artificially propagate and transplant the Wright fishhook cactus	Discontinued	Prior to FY 1995		USFWS Region 6, Endangered Species Division	Management: Propagation, Research: Propagation	Contract, Species Expert	Artificial propagation is not currently deemed necessary for survival of species. The species has been successfully propagated from seed in greenhouses. Transplanting has occurred with limited success but monitoring has not taken place.
Wright fishhook cactus (Sclerocactus wrightiae)	2	6	Develop a comprehensive trade management plan for all cacti	Not Started			FWS, Office of Endangered Species, Washington, DC	Other: Regulations	Contract	Field Office does not possess ability to conduct studies national in scope and addressing all cacti, however considers that others are participating on comprehensive trade management.